	Application No.	Applicant(s)
Notice of Allowability	10/698,263 Examiner	KARLSSON ET AL.
	Matthew Bradley	2187
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	pars on the cover sheet with the coor (OR REMAINS) CLOSED in this ap or other appropriate communication (GHTS. This application is subject to	plication. If not included a will be mailed in due course. THIS
1. 🖾 This communication is responsive to <u>amendment filed 7 No.</u>	ovember 2006 .	• •
2. A The allowed claim(s) is/are 1-27.		
3.	e been received. be been received in Application No currents have been received in this of this communication to file a reply MENT of this application.  whitted. Note the attached EXAMINER bes reason(s) why the oath or declara of the submitted.  son's Patent Drawing Review ( PTO)  s Amendment / Comment or in the (  .84(c)) should be written on the drawing he header according to 37 CFR 1.121( sit of BIOLOGICAL MATERIAL	complying with the requirements  I'S AMENDMENT or NOTICE OF ation is deficient.  948) attached  Office action of angs in the front (not the back) of (d).  must be submitted. Note the
attached Examiner's comment regarding REQUIREMENT	FOR THE DEPOSIT OF BIOLOGIC	AL MATERIAL.
Attachment(s)  1.  Notice of References Cited (PTO-892)	5. Notice of Informal F	Patent Application
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	* *
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	Paper No./Mail Da 7. ⊠ Examiner's Amendi 8. ⊠ Examiner's Statem	te
	9. 🗍 Other	

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#### **DETAILED ACTION**

## Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 7 November 2006 has been entered.

The Examiner would like to point out the change of examiner in this case and apologizes for any inconvenience as a result of this.

#### Claim Status

Claims 1-14 remain pending and are ready for examination.

Claims 15-27 were indicated as being allowable and remain allowable as noted below.

### Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this Examiner's amendment was given in a telephone interview with Derek Westberg on 5 January 2007.

The application has been amended as follows:

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With respect to the claims dated 7 November 2006,

- o Amend claim 1 as follows:
  - Line 15: Replace "a performance constraint" with "the performance requirement".
- o Amend claim 2 as follows:
  - o Line 2: Replace "constraint" with "requirement".

# Allowable Subject Matter

With respect to amendments submitted 7 November 2006, claims 1-27 are allowed.

The following is an Examiner's statement of reasons for allowance: the prior art made of record fails to teach the combination including the limitations of:

- (Claim 1) "...determining the binary variables in the first subset that may be rounded down without violating the performance requirement, thereby forming the second subset ...";
- (Claim 8) "...determining the binary variables in the first subset that may be rounded down without violating the performance requirement, thereby forming the second subset ...";
- (Claim 15) "...determining the binary variables in the first subset that may be rounded down without violating the performance constraint, thereby forming the second subset ...":
- (Claim 21) "... the integer program modeling a data placement problem which seeks to minimize a cost of placing data objects onto nodes of a distributed storage

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system while meeting a performance requirement for a workload... ... determining the binary variables in the first subset that may be rounded down without violating the performance constraint, thereby forming the second subset ...";

As dependent claims 2-7, 9-14, 16-20, and 22-27 depend from an allowable base claim; they are at least allowable for the same reasons as noted *supra*.

The prior art made of record neither anticipates nor renders obvious the aboverecited combinations.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew Bradley whose telephone number is (571) 272-8575. The examiner can normally be reached on 6:30-3:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald A. Sparks can be reached on (571) 272-4201. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

BRP/mb

DONALD SPÁRKS
SUPERVISORY PATENT EXAMINER